

Gunter, Jason

From: Nations, Mark [mnations@doerun.com]
Sent: Friday, August 09, 2013 11:23 AM
To: Gunter, Jason
Cc: England, Jason; Yingling, Mark; Wohl, Matthew; 'Kevin Lombardozzi' (kevinl@VALHI.NET); 'Matt Whitwell' (mwhitwell@i1.net); Norman Lucas (cityhall@i1.net); robert.hinkson@dnr.mo.gov; Ty Morris (TMorris@barr.com); Sanders, Amy B.
Subject: National proress report
Attachments: 2013-07-31 NAT UAO Pace Lab Report.pdf; NATL 07-13.doc

Jason,
Attached is the July progress report. Let me know if you have questions.
Mark

This message is intended solely for the designated recipient and may contain confidential, privileged or proprietary information. If you have received it in error, please notify the sender immediately and delete the original and any copy or printout. Please note that any views or opinions presented in this e-mail are solely those of the author and do not necessarily represent those of The Doe Run Company. Finally, the recipient should check this message and any attachments for the presence of viruses or malware. The Doe Run Company accepts no liability for any loss or damage caused through the transmission of this e-mail.

07CR 30290268 4.2

0402 Superfund



Remediation Group

Mark Nations
Mining Properties Manager
mnations@doerun.com

August 12, 2013

Mr. Jason Gunter
Remedial Project Manager
U.S. Environmental Protection Agency
Region 7 - Superfund Branch
11201 Renner Blvd.
Lenexa, KS 66219

Re: National Mine Tailings Site Progress Report

Dear Mr. Gunter:

As required by Article VI, Section 51 of the Unilateral Administrative Order (Docket No.CERCLA-07-2006-0231) for the referenced project and on behalf of The Doe Run Company and NL Industries, Inc., the progress report for the period July 1, 2013 through July 31, 2013 is enclosed. If you have any questions or comments, please call me 573-518-0800.

Sincerely,

Mark Nations
Mining Properties Manager

Enclosure

c: Jason England – TDRC
Mark Yingling – TDRC (electronic only)
Matt Wohl – TDRC (electronic only)
Kevin Lombardozzi – NL Industries, Inc.
Matt Whitwell – City of Park Hills
Norm Lucas – Park Hills – Leadington Chamber of Commerce
Robert Hinkson – MDNR
Ty Morris – Barr Engineering

1221 Mill Street, Leadwood, MO 63653
Telephone: (573) 562-7793

National Mine Tailings Site
Park Hills, Missouri
Removal Action - Monthly Progress Report
Period: July 1, 2013 – July 31, 2013

1. Actions Performed and Problems Encountered This Period:

- a. Barr and Doe Run staff began working with the landowners to determine the best way to access the mine shaft located in the Mine Shaft Area.
- b. Work continued on the development of the Removal Action Report.

2. Analytical Data and Results Received This Period:

- a. During this period, water samples were collected at the sampling locations identified in Appendix C of the Removal Action Work Plan where water was present. Copies of the analytical results from the last sampling event are included with this progress report.
- b. During this period, the Ambient Air Monitoring Reports for First Quarter 2013 and April 2013 were completed. Any issues identified in these reports are discussed below. A copy of these documents has been sent to your attention.

The First Quarter 2013 Ambient Air Monitoring Report noted the following:

- The action levels for lead and dust were not exceeded.
- No samples were taken with the TSP and PM₁₀ monitors on 01/01/13 due to the holiday.
- No sample was taken on National #1 (Ozark Insulation) with the TSP monitor at due to an error with the monitor. Upon discovering the issue the monitor was evaluated and reset.
- The sample for Big River #4 (QA) TSP monitor on 01/24/13 was invalid due to a mechanical failure. Upon discovering the mechanical failure, the issue was addressed.
- No samples were taken with the TSP monitors on 02/22/13 due to an ice storm.
- No samples were taken with the PM₁₀ monitors on 02/24/13 due to an ice storm.
- No samples were taken with the TSP monitors on 03/07/13 due to the remediation crew being at annual training.

The April 2013 Ambient Air Monitoring Report noted the following:

- The action levels for lead and dust were not exceeded.
- The sample for National #2 (soccer field) monitor on 04/19/13 was invalid due to a mechanical failure. Upon discovering the mechanical failure, the issue was addressed.

3. Developments Anticipated and Work Scheduled for Next Period:

- a. Complete rehabilitation activities on the mine shaft located in the Mine Shaft Area.
- b. Continue developing the Removal Action Report.
- c. Complete monthly water sampling activities as described in the Removal Action Work Plan.
- d. Complete air monitoring activities as described in the Removal Action Work Plan.

4. Changes in Personnel:

- a. None.

5. Issues or Problems Arising This Period:

- a. None.

6. Resolution of Issues or Problems Arising This Period:

- a. None.

End of Monthly Progress Report



Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 07, 2013

Amy Sanders
The Doe Run Company
P. O. Box 500
Viburnum, MO 65566

RE: Project: NATIONAL (MONTHLY)
Pace Project No.: 60150136

Dear Amy Sanders:

Enclosed are the analytical results for sample(s) received by the laboratory on August 02, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamie Church

jamie.church@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: NATIONAL (MONTHLY)
Pace Project No.: 60150136

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334

New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



Pace Analytical Services, Inc.

9608 Loiret Blvd.

Lenexa, KS 66219

(913)599-5665

SAMPLE SUMMARY

Project: NATIONAL (MONTHLY)

Pace Project No.: 60150136

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60150136001	NAT SE	Water	07/31/13 20:51	08/02/13 06:10

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: NATIONAL (MONTHLY)
Pace Project No.: 60150136

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60150136001	NAT SE	EPA 200.7	JGP	6	PASI-K
		EPA 200.7	JGP	3	PASI-K
		SM 2540C	LEM	1	PASI-K
		SM 2540D	LEM	1	PASI-K
		SM 2540F	LEM	1	PASI-K
		SM 4500-H+B	JML	1	PASI-K
		EPA 300.0	OL	1	PASI-K
		SM 5310C	TJJ	1	PASI-G

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: NATIONAL (MONTHLY)
Pace Project No.: 60150136

Sample: NAT SE		Lab ID: 60150136001		Collected: 07/31/13 20:51		Received: 08/02/13 06:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Cadmium	ND	ug/L	5.0	2.5	1	08/02/13 15:00	08/06/13 14:48	7440-43-9	
Calcium	174000	ug/L	100	10.4	1	08/02/13 15:00	08/06/13 14:48	7440-70-2	
Lead	9.3	ug/L	5.0	2.4	1	08/02/13 15:00	08/06/13 14:48	7439-92-1	B
Magnesium	79600	ug/L	50.0	6.5	1	08/02/13 15:00	08/06/13 14:48	7439-95-4	
Total Hardness by 2340B	762000	ug/L	500		1	08/02/13 15:00	08/06/13 14:48		
Zinc	699	ug/L	50.0	3.3	1	08/02/13 15:00	08/06/13 14:48	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Cadmium, Dissolved	ND	ug/L	5.0	2.5	1	08/05/13 16:30	08/06/13 18:03	7440-43-9	
Lead, Dissolved	ND	ug/L	5.0	2.4	1	08/05/13 16:30	08/06/13 18:03	7439-92-1	
Zinc, Dissolved	547	ug/L	50.0	3.3	1	08/05/13 16:30	08/06/13 18:03	7440-66-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	500	mg/L	5.0	5.0	1		08/05/13 09:38		
2540D Total Suspended Solids		Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	5.0	1		08/05/13 08:33		
2540F Total Settleable Solids		Analytical Method: SM 2540F							
Total Settleable Solids	ND	mL/L/hr	0.20	0.20	1		08/02/13 00:00		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	7.7	Std. Units	0.10	0.10	1		08/02/13 13:09		H3,H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Sulfate	247	mg/L	20.0	3.2	20		08/06/13 15:56	14808-79-8	
5310C TOC		Analytical Method: SM 5310C							
Total Organic Carbon	1.2	mg/L	0.50	0.041	1		08/07/13 09:46	7440-44-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Date: 08/07/2013 03:01 PM

Page 5 of 16



QUALITY CONTROL DATA

Project: NATIONAL (MONTHLY)
Pace Project No.: 60150136

QC Batch: MPRP/23703 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60150136001

METHOD BLANK: 1230192 Matrix: Water
Associated Lab Samples: 60150136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	ug/L	ND	5.0	08/06/13 14:07	
Calcium	ug/L	ND	100	08/06/13 14:07	
Lead	ug/L	2.7J	5.0	08/06/13 14:07	
Magnesium	ug/L	6.6J	50.0	08/06/13 14:07	
Total Hardness by 2340B	ug/L	ND	500	08/06/13 14:07	
Zinc	ug/L	ND	50.0	08/06/13 14:07	

LABORATORY CONTROL SAMPLE: 1230193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	1000	981	98	85-115	
Calcium	ug/L	10000	9980	100	85-115	
Lead	ug/L	1000	966	97	85-115	
Magnesium	ug/L	10000	9870	99	85-115	
Total Hardness by 2340B	ug/L		65500			
Zinc	ug/L	1000	1050	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1230194 1230195

Parameter	Units	60149948002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Cadmium	ug/L	ND	1000	1000	987	973	99	97	70-130	1	10
Calcium	ug/L		10000	10000	59700	58600	103	92	70-130	2	9
Lead	ug/L	ND	1000	1000	950	934	95	93	70-130	2	10
Magnesium	ug/L		10000	10000	188000	187000	111	96	70-130	1	9
Total Hardness by 2340B	ug/L	853 mg/L			924000	915000				1	
Zinc	ug/L	ND	1000	1000	990	976	99	97	70-130	1	11

MATRIX SPIKE SAMPLE: 1230196

Parameter	Units	60150139002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	ND	1000	966	97	70-130	
Calcium	ug/L	42000	10000	51800	98	70-130	
Lead	ug/L	4.5J	1000	966	96	70-130	
Magnesium	ug/L	25400	10000	36400	110	70-130	
Total Hardness by 2340B	ug/L	210000		279000			
Zinc	ug/L	47.9J	1000	1050	100	70-130	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: NATIONAL (MONTHLY)
Pace Project No.: 60150136

QC Batch: MPRP/23720 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60150136001

METHOD BLANK: 1231216 Matrix: Water
Associated Lab Samples: 60150136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	ND	5.0	08/06/13 18:00	
Lead, Dissolved	ug/L	ND	5.0	08/06/13 18:00	
Zinc, Dissolved	ug/L	4.9J	50.0	08/06/13 18:00	

LABORATORY CONTROL SAMPLE: 1231217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	1000	936	94	85-115	
Lead, Dissolved	ug/L	1000	963	96	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1231218 1231219

Parameter	Units	60150136001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Cadmium, Dissolved	ug/L	ND	1000	1000	944	932	94	93	70-130	1	10
Lead, Dissolved	ug/L	ND	1000	1000	947	930	95	93	70-130	2	10
Zinc, Dissolved	ug/L	547	1000	1000	1510	1490	96	94	70-130	1	11

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



Pace Analytical Services, Inc.

9608 Loiret Blvd.

Lenexa, KS 66219

(913)599-5665

QUALITY CONTROL DATA

Project: NATIONAL (MONTHLY)

Pace Project No.: 60150136

QC Batch: WET/42715

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 60150136001

METHOD BLANK: 1231011

Matrix: Water

Associated Lab Samples: 60150136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	08/05/13 09:38	

LABORATORY CONTROL SAMPLE: 1231012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	945	95	80-120	

SAMPLE DUPLICATE: 1231013

Parameter	Units	60150136001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	500	506	1	17	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Date: 08/07/2013 03:01 PM

Page 8 of 16



Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: NATIONAL (MONTHLY)
Pace Project No.: 60150136

QC Batch: WET/42711 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60150136001

METHOD BLANK: 1230967 Matrix: Water

Associated Lab Samples: 60150136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	08/05/13 08:33	

SAMPLE DUPLICATE: 1230968

Parameter	Units	60150136001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 1230969

Parameter	Units	60150107001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	6.0	6.0	0	25	

REPORT OF LABORATORY ANALYSIS

Date: 08/07/2013 03:01 PM

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Page 9 of 16



Pace Analytical Services, Inc.

9608 Loiret Blvd.

Lenexa, KS 66219

(913)599-5665

QUALITY CONTROL DATA

Project: NATIONAL (MONTHLY)

Pace Project No.: 60150136

QC Batch: WET/42688

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Associated Lab Samples: 60150136001

SAMPLE DUPLICATE: 1230063

Parameter	Units	60149917001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	0	5	H1,H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: NATIONAL (MONTHLY)
Pace Project No.: 60150136

QC Batch: WETA/25691 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60150136001

METHOD BLANK: 1231399 Matrix: Water
Associated Lab Samples: 60150136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	08/06/13 10:20	

LABORATORY CONTROL SAMPLE: 1231400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.0	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1231401 1231402

Parameter	Units	60149422001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	15.9	10	10	28.6	28.9	126	129	61-119	1	10 M1	

MATRIX SPIKE SAMPLE: 1231404

Parameter	Units	60150075002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	28.5	50	82.2	107	61-119	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: NATIONAL (MONTHLY)
Pace Project No.: 60150136

QC Batch: WETA/18827 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60150136001

METHOD BLANK: 833384 Matrix: Water
Associated Lab Samples: 60150136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.50	08/07/13 10:22	

LABORATORY CONTROL SAMPLE: 833385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.6	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 833386 833387

Parameter	Units	4082116001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	2.1	7.5	7.5	10.2	10.2	108	107	80-120	1	20	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALIFIERS

Project: NATIONAL (MONTHLY)
Pace Project No.: 60150136

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PRL - Pace Reporting Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay
PASI-K Pace Analytical Services - Kansas City

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.
H1 Analysis conducted outside the EPA method holding time.
H3 Sample was received or analysis requested beyond the recognized method holding time.
H6 Analysis initiated outside of the 15 minute EPA recommended holding time.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NATIONAL (MONTHLY)
Pace Project No.: 60150136

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60150136001	NAT SE	EPA 200.7	MPRP/23703	EPA 200.7	ICP/18596
60150136001	NAT SE	EPA 200.7	MPRP/23720	EPA 200.7	ICP/18609
60150136001	NAT SE	SM 2540C	WET/42715		
60150136001	NAT SE	SM 2540D	WET/42711		
60150136001	NAT SE	SM 2540F	WET/42685		
60150136001	NAT SE	SM 4500-H+B	WET/42688		
60150136001	NAT SE	EPA 300.0	WETA/25691		
60150136001	NAT SE	SM 5310C	WETA/18827		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



Sample Condition Upon Receipt

WO#: 60150136



60150136

Client Name: DRC

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ VIA

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☒

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other 12PIC

Thermometer Used: T-112 / T-194

Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2-1

Date and initials of person examining contents: PLA-2-13

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. PH S-S
Rush Turn Around Time requested: <u>8-2-13</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7. 30 day
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:

Client Notification/ Resolution:

Copy COC to Client? Y / N

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: James Church

Date: 8/2/13

